## DEVICE FOR THE CONTROLLED DISTRIBUTION OF 1 PULVERULENT PRODUCTS 2 3 4 CLAIMS 5 Device for the controlled distribution of 6 pulverulent products including a feed container (1) 7 for said product having an outlet aperture sealed by a rotor (6) provided with a plurality of transfer 9 cavities (7, 8), each of which comprises an inlet 10 aperture and an evacuation aperture, the paths of 11 said inlet apertures successively passing opposite 12 said outlet aperture in order to be filled with said 13 product and said evacuation apertures passing 14 successively opposite a distribution aperture (13, 15 14), connected to means (12) to evacuate said 16 pulverulent product from said transfer cavities (7, 17 8), for emptying therein, of sealing surfaces (5a, 18 5b) of said inlet and evacuation apertures, disposed 19 along said respective paths and means (M, 15) to 20 rotate said rotor (6) around an axis, characterised 21 in that said rotor comprises means for linking said 22 cavities to said rotational axis, arranged to give

said cavities a degree of freedom in a substantially

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2 perpendicular direction to said sealing surfaces 1 (5a, 5b). 2 3 Device according to Claim 1 wherein said rotor 4 (6) has at least one axial guiding surface (6a) 5 acting as a seat for rolling means (9a, 9b) between 6 said rotor (6) and said sealing means (5a, 5b). 7 8 Device according to Claim 2, wherein said rotor 9 3. (6) has at least one axial guiding surface (6a) 10 receiving on the one hand a rolling bearing (9a) 11 disposed between said rotor (6) and said sealing 12 surfaces (5a) of said inlet apertures, and on the 13 other hand a rolling bearing (9b) disposed between 14 said rotor (6) and said sealing surfaces (5b) of 15 said evacuation apertures. 16 17

Device according to Claim 1, including a 18 detachable key linkage (16) between said rotor (6) 19 and said drive means (M, 15). 20

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Device according to Claim 1, wherein the angle 22 between said outlet aperture of said feed container 23 (1) and said distribution aperture (13, 14) is less 24 than 90°. 25

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- Device according to Claim 1, wherein said rotor 6. 27 (6) is disk-shaped and said sealing surfaces (5a, 28 5b) substantially extend on the angular portion of 29
- this disk located between said outlet apertures of 30
- said feed container (1) and said distribution 31

- 1 apertures (13, 14), leaving clear the parts of this
- 2 disk which are located outside said angular portion.

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- 4 7. Device according to Claim 1, including two
- 5 concentric circular series of transfer cavities (7,
- 6 8), the cavities of one series being half a pitch
- 7 apart from the cavities of the other series.

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- 9 8. Device according to Claim 1, wherein said
- 10 cavities have a cylindrical shape, the straight
- 11 sections of which are substantially smaller than
- 12 those of the outlet aperture of said feed container
- 13 (1) and said distribution aperture (13, 14).

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- 15 9. Device according to Claim 1, wherein said
- 16 transfer cavities (7, 8) are cylindrical, the length
- 17 of these cavities not exceeding twice the diameter
- 18 of their sections.

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- 20 10. Device according to Claim 6, wherein said
- 21 transfer cavities (7, 8) are formed in an annular
- 22 portion (6a) of said disk (6) with a thickness which
- 23 is greater than that which links this annular
- 24 portion to the central part of this disk and which
- 25 has a resilience capable of giving said annular
- 26 portion (6a) a degree of freedom in said
- 27 substantially perpendicular direction to said
- 28 sealing surfaces (5a, 5b).

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- 30 11. Device according to Claim 6, wherein said
- 31 transfer cavities (7, 8) are formed on an annular

- part 6'a linked to the central part of said rotor by
- 2 floating linkage means.